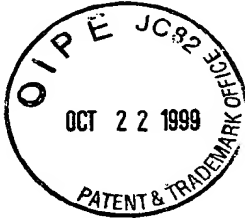


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: WAYNE A. HENDRICKSON and BARRY HONIG  
Serial No.: 09/235,986  
Filed : January 22, 1999  
For : PROCESS FOR PAN-GENOMIC DETERMINATION  
OF MACROMOLECULAR ATOMIC STRUCTURES



1185 Avenue of the Americas  
New York, New York 10036  
October 19, 1999

Assistant Commissioner of Patents  
Washington, D.C. 20231

SIR:

INFORMATION DISCLOSURE STATEMENT

In accordance with the applicants' duty of disclosure under 37 C.F.R. §1.56 in connection with the above-identified application, applicants respectfully direct the Examiner's attention to the following references attached hereto as Exhibits B-L and listed in PTO Form 1449 attached hereto as Exhibit A:

1. Hendrickson, et al., *THE EMBO JOURNAL* (1990), "Selenomethionyl Proteins Produced for Analysis by Multiwavelength Anomalous Diffraction (MAD): A Vehicle for Direct Determination of Three-Dimensional Structure," Vol. 9, No. 5, pages 1665-1672; U.S.A. (Exhibit B);
2. Yang, et al., *SCIENCE* (1990), "Structure of Ribonuclease H Phased at 2 Å Resolution by MAD Analysis of the Selenomethionyl Protein," Vol. 249, pages 1398-1405; U.S.A. (Exhibit C);

3. Hendrickson, Wayne A., *SCIENCE* (1991) "Determination of Macromolecular Structures from Anomalous Diffraction of Synchrotron Radiation," Vol. 254, pages 51-58; U.S.A. (Exhibit D);
4. Smith, et al., *PROTEINS: Structure, Function, and Genetics* (1994), "Evaluation of the Conformational Free Energies of Loops in Proteins," Vol. 18, pages 119-132; U.S.A. (Exhibit E);
5. Honig, et al., *SCIENCE* (1995), "Classical Electrostatics in Biology and Chemistry," Vol. 268, pages 1144-1149; U.S.A. (Exhibit F);
6. Shapiro, et al., *NATURE* (1995), "Structural Basis of Cell-Cell Adhesion by Cadherins," Vol. 374, pages 327-337; U.S.A. (Exhibit G);
7. Ben-Tal, et al., *BIOPHYSICAL JOURNAL* (1996), "Free Energy Determinants of  $\alpha$ -Helix Insertion into Lipid Bilayers," Vol. 70, pages 1803-1812; U.S.A. (Exhibit H);
8. Froloff, et al., *PROTEIN SCIENCE* (1997), "On the Calculation of Binding Free Energies Using Continuum Methods: Application to MHC Class I Protein-Peptide Interactions," Vol. 6, pages 1293-1301; U.S.A. (Exhibit I);
9. Hendrickson, et al., *METHODS IN ENZYMOLOGY* (1997), "[28] Phase Determination from Multiwavelength Anomalous Diffraction Measurements," Vol. 276, pages 494-523; U.S.A. (Exhibit J);

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Serial No. 09/235,986  
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Page 3

10. Lima, et al., *STRUCTURE* (1997), "MAD Analysis of FHIT, a Putative Human Tumor Suppressor from the HIT Protein Family," Vol. 5, pages 763-774; U.S.A. (Exhibit K); and
11. Shapiro, et al., *STRUCTURE* (1998), "The Argonne Structural Genomics Workshop: Lamaze Classes for the Birth of a New Science," Vol.6, pages 265-267; U.S.A. (Exhibit L);

Applicants maintain that the subject invention is novel and nonobvious over the teachings disclosed in the references listed above. Accordingly, applicants maintain that the above-listed references do not disclose or suggest the invention claimed in the subject application.

If a telephone conference would be of assistance in advancing the prosecution of the subject application, applicants' undersigned attorney invites the Examiner to telephone him at the number provided below.

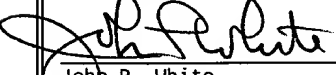
No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,



John P. White  
Registration No. 28,678  
Attorney for Applicants  
Cooper & Dunham LLP  
1185 Avenue of the Americas  
New York, New York 10036  
(212) 278-0400

I hereby certify that this paper is being deposited this date with the U.S. Postal Service as first class mail addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

 10/19/99  
John P. White  
Reg. No. 28,678

Date